

***NATIONAL WEATHER SERVICE INSTRUCTION 10-512
OCTOBER 1, 2003***

***Operations and Services
Public Weather Services, NWSPD 10-5***

NATIONAL SEVERE WEATHER PRODUCTS SPECIFICATION

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SUMMARY OF REVISIONS: This directive supersedes NWSI 10-512, dated October 1, 2002 and OML 99-05 filed with WSOM Chapter C-40, dated November 10, 1999. This directive adds a new Watch Outline Update Message product specification (Section 7) and changes the Watch Status Message from a public to an internal coordination product (Section 12).

signed	04/04/03
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Director, Office of Climate, Water, and Weather Services	

National Severe Weather Products Specification

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1. Introduction. This procedural instruction describes the narrative and graphical severe weather products issued by the Storm Prediction Center (SPC) for the continental United States (CONUS).

2. **Categorical Convective Outlook (product category SWODY1, SWODY2 and SWODY3 and graphics PGWE46, PGW147, and PGWK48)**

2.1 Mission Connection. SPC issues narrative and graphical Categorical Convective Outlooks to provide CONUS Weather Forecast Offices (WFOs), the public, media and emergency managers with the potential for severe and general convection during the next 72 hours.

2.2 Issuance Guidelines.

2.2.1 Creation Software. SPC will use the National Centers NAWIPS editor for text products, and the SPC graphics editor for graphical products.

2.2.2 Issuance Criteria. Categorical Outlooks are a scheduled product.

2.2.3 Issuance Time. Day One Outlook: 0600, 1300, 1630, 2000 and 0100 UTC
Day Two Outlook: 0830 (0730 during daylight savings time), 1730 UTC
Day Three Outlook: 1000 UTC

2.2.4 Valid Time. The valid time is from the time of issuance until 1200 UTC the next day or until the next scheduled update is issued.

2.2.5 Product Expiration Time. Product expiration time is 1200 UTC the next day.

2.3 Technical Description. Categorical outlooks should follow the format and content described in this section.

2.3.1 Mass News Disseminator Broadcast Line. None.

2.3.2 Mass News Disseminator Header. The SWO MND header is "DAY (ONE, TWO OR THREE) CONVECTIVE OUTLOOK".

2.3.3 Content. The Categorical Convective Outlook defines areas of slight, moderate or high risk of severe thunderstorms. A convective day is a 24 hour period beginning at 1200 UTC and ending at 1200 UTC the next day (i.e. 1200 UTC today to 1200 UTC tomorrow). The Day One and Day Two outlooks also define areas of general thunderstorms. SPC uses "SEE TEXT" for areas where convection may approach or slightly exceed severe criteria (wind gusts 50 knots or greater or hail 3/4 inch diameter size or greater). Two letter postal state identifiers are used to specify all or parts of states in moderate or high risk areas. SPC will issue a Public Severe Weather Outlook when a high risk is forecast. Convective Outlook narratives will reference Public Severe Weather Outlooks. SPC should issue narrative and graphical forecasts at the same

time. The contour for “General Thunder” in the graphical forecast refers to any thunderstorm. Day Three Outlooks do not forecast the 10 percent probability of severe convection. SPC may issue high risk areas for Day Two and Day Three outlooks for forecast extreme severe weather events.

DAY 1

<u>Category</u>	<u>Element</u>	<u>Probability</u>	<u>Extreme</u>
SLGT	Hail	5%	YES
	Hail	15-25%	YES or no
	Hail	35%	no
		or	
	Wind	5%	YES
	Wind	15-25%	YES or no
	Wind	35%	no
		or	
	Tornado	5%	YES or no

NOTE: 5% hail and wind (no SIG), and 2% tornado are equivalent to **SEE TEXT**.

MDT

Hail	35%	YES
Hail	45%	YES or no
	or	
Wind	35%	YES
Wind	45%	no
	or	
Tornado	15%	YES or no
Tornado	25%	no

HIGH

Hail	n/a	n/a
	or	
Wind	45%	YES
	or	
Tornado	25%	YES
Tornado	35-45%	YES or no

DAY 2 and DAY 3

SLGT	15-25% <i>all severe</i>	YES or no
MDT (day 2 only)	35-45% <i>all severe</i>	YES or no

NOTE: 5% *all severe* is equivalent to **SEE TEXT** (only use SIG area with 15% or greater).

Figure 1. Conversion from Probabilistic to Categorical Forecasts Chart

2.3.4 Format.

ACUS01 KWNS ddhhmm
SWODYn

DAY (ONE OR TWO) CONVECTIVE OUTLOOK...REF AWIPS GRAPHIC PGWE(46 OR 47) KWNS

NWS STORM PREDICTION CENTER NORMAN OK

time am/pm time_zone day mon dd yyyy

VALID DDHHMM - DDHHMMZ

THERE IS A (SLIGHT, MODERATE, HIGH) RISK OF SEVERE THUNDERSTORMS TO THE RIGHT OF LINE (LIST OF ANCHOR POINTS AND DIRECTION AND DISTANCE IN STATUTE MILES FROM THE LINE). THE LINE WILL ENCLOSE THE AREA OF RISK. THERE MAY BE ONE OR MORE AREAS OF RISK AT THE APPROPRIATE LEVEL OF RISK. WHEN A MODERATE OR HIGH RISK IS FORECAST, THE INDIVIDUAL STATES ARE ALSO LISTED WITH THE TWO LETTER POSTAL STATE IDENTIFIERS.

GEN TSTMS ARE FCST TO THE RIGHT OF A LINE FROM (LIST OF ANCHOR POINTS AND DIRECTION AND DISTANCE IN STATUTE MILES FROM THE LINE). THERE MAY BE ONE OR MORE AREAS OF GEN TSTMS LISTED.

...AREA OF CONCERN #1...

AREAS OF HIGHEST RISK ARE DISCUSSED FIRST (HIGH SEVERE RISK, MODERATE SEVERE RISK, SLIGHT SEVERE RISK, APPROACHING SEVERE LIMITS). THE FORECAST PROVIDES A NARRATIVE TECHNICAL DISCUSSION.

...AREA OF CONCERN #2...

NARRATIVE TECHNICAL DISCUSSION

\$\$

...FORECASTER NAME... MM/DD/YY

Figure 2. Categorical Outlook Format

2.4 Updates, Amendments and Corrections. Updates are scheduled (see issuance times). SPC will correct outlooks for format and grammatical errors. SPC will amend when it is recognized that the current forecast does not or will not reflect the ongoing or future convective development.

3. **Probabilistic Convective Outlook (product category RGB0A1, RGB0A2, RGB0A3).**

3.1 Mission Connection. SPC issues probabilistic convective outlooks to provide CONUS WFOs, the public, media, and emergency managers with specific severe weather threats during the next 72 hours. SPC assigns each threat with a percent likelihood of occurrence.

3.2 Issuance Guidelines.

3.2.1 Creation Software. SPC will use the National Centers NAWIPS editor.

3.2.2 Issuance Criteria. Probabilistic Convective Outlooks are a scheduled product.

3.2.3 Issuance Time. Day One Outlook: 0600, 1300, 1630, 2000 and 0100 UTC
Day Two Outlook: 0830 (0730 during daylight savings time), 1730 UTC
Day Three Outlook: 1100 UTC

3.2.4 Valid Time. The valid time is from the time of issuance until 1200 UTC the next day or until the next scheduled update is issued.

3.2.5 Product Expiration Time. Product expiration time is 1200 UTC the next day.

3.3 Technical Description. Probabilistic outlooks should follow the format and content described in this section.

3.3.1 Mass News Disseminator Broadcast Line. Not applicable.

3.3.2 Mass News Disseminator Header. Not applicable.

3.3.3 Content. SPC will issue probabilistic convective outlooks in a Red-Book graphic format. The Day One Outlook will consist of separate graphics for tornadoes, hail, and damaging winds. The Day Two and Three Outlooks will have combined severe thunderstorm events in one graphic. These outlooks provide numerical probabilities of severe weather within 25 statute miles of any point within a given area. The probability thresholds/contours in each graphic are as follows:

Day One Outlook for tornadoes: 2, 5, 15, 25, 35, and 45%

Day One Outlook for damaging winds: 5, 15, 25, 35, and 45%

Day One Outlook for severe hail: 5, 15, 25, 35, and 45%

Day Two and Three Outlooks (combined events): 5, 15, 25, 35, and 45%

SPC will indicate an “extreme area” on individual probabilistic graphical products when there is a 10% chance of tornadoes that could produce F2 or greater damage, or two inch or greater diameter hail, or sixty five knot or greater convective wind gusts will occur within 25 miles of any one point.

3.3.4 Format.

Day One Outlook (Convective Wind)

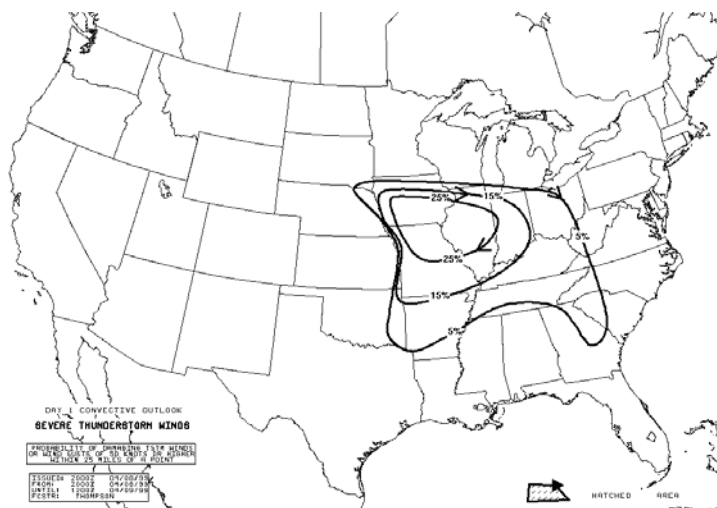


Figure 3. Probabilistic Outlook Example

3.4 Updates, Amendments and Corrections. Updates are scheduled (see issuance times). SPC will amend outlooks for format and grammatical errors. SPC will amend when it is recognized that the current forecast does not or will not reflect the ongoing or future convective development.

4. SPC Points Product (product category PTSDY1, PTSDY2, PTSDY3).

4.1 Mission Connection. SPC issues the Points Product to provide CONUS WFOs, the public, media, and emergency managers with the latitude and longitude locations of the points that make up the SPC Categorical and Probabilistic Convective Outlook areas.

4.2 Issuance Guidelines.

4.2.1 Creation Software. SPC uses automated software.

4.2.2 Issuance Criteria. Points Products are scheduled products.

4.2.3 Issuance Time. Day One Outlook: 0600, 1300, 1630, 2000 and 0100 UTC
Day Two Outlook: 0830 (0730 during daylight savings time), 1730 UTC
Day Three Outlook: 1100 UTC

4.2.4 Valid Time. The valid time is from the time of issuance until 1200 UTC the next day or until the next scheduled update is issued.

4.2.5 Product Expiration Time. Product expiration time is 1200 UTC the next day.

4.3 Technical Description. The SPC Points Product should follow the format and content described in this section.

4.3.1 Mass News Disseminator Broadcast Line. Not applicable.

4.3.2 Mass News Disseminator Header. Not applicable.

4.3.3 Content. SPC will issue three separate products for the Day 1, Day 2, and Day 3 outlooks. The Day 1 product provides the points for the Probabilistic Outlooks for tornado, large hail and damaging winds, and the associated Categorical Outlook. The Day 2 and 3 products lists the points for the Probabilistic Outlook for all severe (tornadoes, large hail, and damaging winds combined) weather events and the associated Categorical Outlook. Points for areas of extreme events are also part of this product.

4.3.4 Format.

KWNS 071644
PTSDY1

DAY 1 CONVECTIVE OUTLOOK AREAL OUTLINE
NWS STORM PREDICTION CENTER NORMAN OK
1044 AM CST THU MAR 07 2002

VALID TIME 071630Z - 081200Z

Probabilistic Outlook Points Day 1

... TORNADO ...

... HAIL ...

0.05 40589152 40569341 40849511 41859542 42849334 43379115
 43618840 42788784 41758812 40589152

... WIND ...

Categorical Outlook Points Day 1

... CATEGORICAL ...

TSTM 27858270 27768038
TSTM 44048294 42588393 41848548 41228741 40408989 39919189
 40159378 40469553 42269617 43749485 44809259 45399002
 45638711 45598391
TSTM 42971145 41030788 39440678 37760706 37160812 37040940
 36931221 37011420 37531605 38541801 39651994 41462002
 42341867 43141684 42971145

\$\$

Figure 4. Points Product Example

4.4 Updates, Amendments and Corrections. Updates are scheduled (see issuance times). SPC will amend outlooks for format and grammatical errors. SPC will amend when it is recognized that the current forecast does not or will not reflect the ongoing or future convective development.

5. **Public Severe Weather Outlook (product category PWOSPC).**

5.1 **Mission Connection.** Public Severe Weather Outlooks alert the CONUS WFOs, public, media, and emergency managers to the seriousness of a particularly dangerous convective situation. These outlooks also define the threat area and provide information on the timing of a convective outbreak.

5.2 **Issuance Guidelines.**

5.2.1 **Creation Software.** SPC will use the National Centers NAWIPS text editor.

5.2.2 **Issuance Criteria.** SPC forecasts a high risk of severe thunderstorms or a significant convective event (see 5.3.3 Content for details).

5.2.3 **Issuance Time.** SPC should issue outlooks at 1000, 1300, 1700 and 2100 (nocturnal) UTC during events (see 5.3.3 for more details).

5.2.4 **Valid Time.** The valid time is from the time of issuance to expiration.

5.2.5 **Product Expiration Time.** The product expiration time will be the time of the next PWO issuance or 1200 UTC the next day if no other issuances are expected.

5.3 **Technical Description.** Public severe weather outlooks should follow the format and content described in this section.

5.3.1 **Mass News Disseminator Broadcast Line.** None.

5.3.2 **Mass News Disseminator Header.** The PWO MND header is “PUBLIC SEVERE WEATHER OUTLOOK.”

5.3.3 **Content.** SPC will issue a Public Severe Weather Outlook when it forecasts any of the following conditions:

- a. High risk of severe thunderstorms in the Categorical Day One Outlook;
- b. 25% or greater probability of tornadoes, and a forecast of a 10% or greater probability of tornadoes which could cause F2 or greater damage within this area; or
- c. 45% or greater probabilities of convective damaging wind gusts and/or severe hail in conjunction with a 10% chance or 65 knot or greater wind gusts and/or 2 inch or greater diameter hail.

If a High Risk is initiated on the 0600 UTC Day 1 Outlook, a PWO will be issued at approximately 1000 and 1700 UTC. If the High Risk is initialized at 1300 UTC Day 1 Outlook,

a PWO will be issued at 1300 and 1700 UTC. A PWO may also be written around 2000 UTC for a high risk that is expected to occur during the overnight hours.

5.3.4 Format.

WOUS40 KWNS ddhhmm

PWOSPC

STZ000>099-CWZ000>099-ddhhmm-

PUBLIC SEVERE WEATHER OUTLOOK

NWS STORM PREDICTION CENTER NORMAN OK

time am/pm time_zone day mon dd yyyy

....HEADLINE OF PARTICULARLY DANGEROUS SITUATION (LOCATION AND TIMING)...

A NARRATIVE PLAIN LANGUAGE DISCUSSION OF THE PARTICULARLY DANGEROUS CONVECTIVE THREAT. THE SPC FORECASTER SHOULD DEFINE THE LOCATION...TIMING AND REASONING FOR THIS OUTLOOK. THE REASONING SHOULD BE KEPT IN TERMS THE PUBLIC WILL UNDERSTAND. INCLUDE CALL TO ACTION STATEMENTS AS REQUIRED.

\$\$

...FORECASTER NAME...

Figure 5. Public Severe Weather Outlook Format

5.4 Updates, Amendments and Corrections. Updates are scheduled (see issuance times). SPC will correct outlooks for format and grammatical errors. PWOs will not be amended.

6. Watch County List (product category WCL).

6.1 Mission Connection. SPC issues Watch County Lists to collaborate with CONUS WFOs on proposed counties to be included in a convective watch.

6.2 Issuance Guidelines.

6.2.1 Creation Software. SPC will use the National Centers NAWIPS text editor.

6.2.2 Issuance Criteria. SPC forecasts weather conditions expected to approach or exceed Severe Thunderstorm or Tornado Watch issuance criteria (see Sections 8.2.2 and 9.2.2).

6.2.3 Issuance Time. Watch County Lists are non-scheduled, event driven products.

6.2.4 Valid Time. Not applicable. Watch County Lists are an internal product.

6.2.5 Product Expiration Time. Not applicable. The AWIPS Message Handling System is used to keep the Watch County List product internal to the NWS.

6.3 Technical Description. Watch county lists will follow the format and content described in this section.

6.3.1 Mass News Disseminator Broadcast Line. Not applicable.

6.3.2 Mass News Disseminator Header. Not applicable.

6.3.3 Content. WFOs and SPC are partners in the convective watch process. In the spirit of partnership, WFOs and SPC work toward a consensus convective watch area and duration before, during and at the end of convective watches. This partnership is defined as collaboration.

SPC uses the Watch County List (WCL) to alert affected WFOs to a proposed convective watch. WFOs may call the SPC and propose a new watch area. SPC will provide the proposed counties and independent cities segmented by state in the watch area, adjacent coastal waters and a proposed expiration time. Adjacent coastal waters refer to near shore responsibility (out to 5 nautical miles for the Great Lakes, and out to 20 nautical miles for oceans).

SPC generates and sends the list through AWIPS to the affected WFOs. SPC will list WFOs providing backup service in the ATTN Line of the Watch County List in order to activate the Watch Warning Advisory (WWA) software. WWA software decodes this list into a graphical display of counties and independent cities in each WFO's county warning area. The list and graphical display on WWA serve as the basis for a mandatory collaboration conference call between SPC and the affected WFOs prior to a watch issuance. SPC will attempt to individually contact affected WFO(s) which are unable to participate in the collaboration conference call. The affected WFOs and SPC will collaborate on the final list of counties and independent cities to be included in the initial convective watch area. If a consensus cannot be reached through collaboration or SPC is unable to contact an affected WFO(s) during the collaboration call or individually, SPC will decide on the final list of counties and independent cities for all affected WFOs for the initial convective watch area.

6.3.4 Format.

NWUS64 KWNS ddhhmm
WCLx

.(TORNADO OR SEVERE THUNDERSTORM) WATCH x
COORDINATION COUNTY LIST FROM THE NWS STORM PREDICTION CENTER
EFFECTIVE UNTIL HHMM UTC.

STC001-003-ddhhmm-

ST

. STATE 1 COUNTIES INCLUDED ARE

LIST OF COUNTIES

STATE 1 INDEPENDENT CITIES INCLUDED ARE

LIST OF INDEPENDENT CITIES

\$\$

STC001-003-ddhhmm-

ST

. STATE 2 COUNTIES INCLUDED ARE

LIST OF COUNTIES

STATE 2 INDEPENDENT CITIES INCLUDED ARE

LIST OF INDEPENDENT CITIES

\$\$

ATTN...WFO...CCC...CCC...CCC... (ALARM/ALERT INFORMATION, WFOS
AFFECTED BY THE PROPOSED WATCH).

Figure 6. Watch County List Format

6.4 Updates, Amendments and Corrections. Updates are not applicable. SPC will correct lists for format and grammatical errors. WCLs will not be amended.

7. **Watch Outline Update Message (product category WOU).**

7.1 **Mission Connection.** SPC issues Watch Outline Update Messages (WOU) to provide CONUS WFOs, emergency managers, the media and the general public with the names of all counties and independent cities in a convective watch area.

7.2 **Issuance Guidelines.**

7.2.1 **Creation Software.** SPC will use the National Centers NAWIPS software to create WOUs.

7.2.2 **Issuance Criteria.** SPC will issue an initial WOU for every CONUS convective watch. SPC will issue WOUs at the top of each hour to update the status of active convective watches.

7.2.3 **Issuance Time.** SPC will issue initial WOUs at the same time the Public and Aviation Watch Notification Messages are issued. SPC will issue subsequent WOUs for active convective watches at the top of each hour.

7.2.4 **Valid Time.** WOUs are valid for one hour.

7.2.5 **Product Expiration Time.** The expiration time is up to one hour after the time of product issuance.

7.3 **Technical Description.** WOUs will follow the format and content described in this section.

7.3.1 **MND Broadcast Line.** SPC will use “BULLETIN - IMMEDIATE BROADCAST REQUESTED” in WOUs only for the initial issuance of this watch product. The term “BULLETIN” is used when information is sufficiently urgent to warrant breaking into a normal broadcast.

7.3.2 **MND Header.** The WOU MND header is “TORNADO (or SEVERE THUNDERSTORM) WATCH OUTLINE UPDATE FOR W(S or T) nnnn”, where “nnnn” is the watch number.

7.3.3 **Content.** SPC will issue WOUs for the time zone(s) the watch area is located. WOUs will be segmented by state and include all counties, independent cities and adjacent coastal waters in a watch area. Adjacent coastal waters refer to near shore responsibility (out to 5 nautical miles for the Great Lakes, and out to 20 nautical miles for oceans). The initial WOU automatically generates the initial Watch County Notification Messages (WCN) for the affected WFOs. Because of the collaboration call, the counties listed in the initial WOU will match the counties listed in the initial WCNs issued by the affected WFOs.

Subsequent WOUs are collected from the latest WCNs issued by the WFOs and issued at the top of each hour. Subsequent WOUs will include all counties and independent cities which remain

in or have been added to the watch area during the past hour. NCEP software will collect WCNs up to 55 minutes past the hour. SPC will issue a final WOU to inform national and regional partners and customers that the convective watch is no longer in effect for any portion of the watch area.

7.3.4 Format.

WOUS64 KWNS ddhhmm
WOU_n

BULLETIN - IMMEDIATE BROADCAST REQUESTED (Initial Issuance Only)
TORNADO (or SEVERE THUNDERSTORM) WATCH OUTLINE UPDATE FOR W(S or T) nnnn
NWS STORM PREDICTION CENTER NORMAN OK
time am/pm time_zone day mon dd yyyy

TORNADO (or SEVERE THUNDERSTORM) WATCH nnnn IS IN (or REMAINS IN) EFFECT UNTIL hhmm
AM/PM XDT FOR THE FOLLOWING LOCATIONS:

STC001-003-ddhhmm-

ST

. STATE 1 COUNTIES INCLUDED ARE

LIST OF COUNTIES

STATE 1 INDEPENDENT CITIES INCLUDED ARE

LIST OF CITIES

\$\$

STC001-003-ddhhmm-

ST

. STATE 2 COUNTIES INCLUDED ARE

LIST OF COUNTIES

STATE 2 INDEPENDENT CITIES INCLUDED ARE

LIST OF CITIES

\$\$

ATTN...WFO...CCC...CCC...CCC... (ALARM/ALERT INFORMATION, WFOS AFFECTED BY THE
WATCH).

Figure 7. Watch Outline Update Message

(Watch No Longer in Effect- Final Update)

WOUS64 KWNS ddhhmm
WOU_n

TORNADO (or SEVERE THUNDERSTORM) WATCH OUTLINE UPDATE FOR W(S or T) nnnn
NWS STORM PREDICTION CENTER NORMAN OK
time am/pm time_zone day mon dd yyyy

TORNADO (or SEVERE THUNDERSTORM) WATCH nnnn IS NO LONGER IN EFFECT.

NO COUNTIES OR PARISHES REMAIN IN THE WATCH.
\$\$

ATTN...WFO...CCC...CCC...CCC... (ALARM/ALERT INFORMATION, WFOS ORIGINALLY AFFECTED BY THE WATCH).

7.4 Updates, Amendments and Corrections. SPC will update WOUs at the top of each hour. SPC will correct WOUs for format and grammatical errors. WOUs are not amended.

8. **Public Severe Thunderstorm Watch Notification Message (product category SEL).**

8.1 Mission Connection. SPC issues Public Severe Thunderstorm Watch Notification Messages to alert CONUS WFOs, the public, media and emergency managers to organized thunderstorms forecast to produce six and more hail events of 3/4 inch (penny) diameter and/or greater or damaging winds of 50 knots (58 mph) or greater.

8.2 Issuance Guidelines.

8.2.1 Creation Software. SPC will use the National Centers NAWIPS text editor.

8.2.2 Issuance Criteria. SPC should issue a Public Severe Thunderstorm Watch Notification Message when there is a forecast of six or more hail events of 3/4 inch (penny) diameter or greater or damaging winds of 50 knots (58 mph) or greater. The forecast event minimum thresholds should be at least 2 hours over an area at least 8,000 square miles. Below these thresholds, SPC in collaboration with affected WFOs may issue convective watches along coastlines, near the Canadian and Mexican borders, and for any ongoing organized severe convection.

8.2.3 Issuance Time. Public Severe Thunderstorm Watch Notification Messages are non-scheduled, event driven products.

8.2.4 Valid Time. The valid time is from the time of issuance to expiration or cancellation time.

8.2.5 Product Expiration Time. The expiration time is the end of the watch valid time.

8.3 Technical Description. Public Severe Thunderstorm Watch Notification Messages will follow the format and content described in this section.

8.3.1 Mass News Disseminator Broadcast Line. Public Severe Thunderstorm Watch Notification Messages will include the broadcast line “URGENT - IMMEDIATE BROADCAST REQUESTED.” The term “URGENT” is used when the information may wait until a stop-set to be broadcast.

8.3.2 Mass News Disseminator Header. The Public Severe Thunderstorm Watch Notification Message MND header is “SEVERE THUNDERSTORM WATCH nnnn.”

8.3.3 Content. A Public Severe Thunderstorm Watch Notification Message will contain the area description and axis, watch expiration time, a description of hail size and thunderstorm wind gusts expected, the definition of a watch, a call to action statement, a list of other valid watches, a brief discussion of reasoning, and technical information for the aviation community (see example).

SPC will include the term “adjacent coastal waters” when the watch affects coastal waters. Adjacent coastal waters refers to a WFO’s near shore responsibility (out to 5 miles for the Great Lakes, and out to 20 miles for oceans). SPC will coordinate with affected WFOs to determine which counties are in the initial watch and meteorological reasoning prior to a watch being issued. SPC will issue a watch cancellation message (under both SEL and SAW products) when there are no counties or independent cities remaining in the watch area. The text of the message will specify the number and area of the cancelled watch.

SPC will designate a Public Severe Thunderstorm Watch Notification Message as “particularly dangerous” in two situations. The first situation occurs when a well defined, large bow echo has developed, there is evidence of destructive convective winds occurring at the surface, the bow echo is moving at 48 knots or greater, and downstream conditions suggest the bow echo will be maintained or intensify for the duration of the watch. The second situation occurs when conditions are favorable for widespread significant non-tornadic severe weather events (convective winds greater than 65 knots and/or hail diameter greater than 2.0 inches).

8.3.4 Format.

WWUS20 KWNS ddhhmm

SELn

STZ000>099-CWZ000>099-ddhhmm-

URGENT - IMMEDIATE BROADCAST REQUESTED
SEVERE THUNDERSTORM WATCH NUMBER nnnn
NWS STORM PREDICTION CENTER NORMAN OK
time am/pm time_zone day mon dd yyyy

THE STORM PREDICTION CENTER HAS ISSUED A
SEVERE THUNDERSTORM WATCH FOR PORTIONS OF

PORTION OF STATE
PORTION OF STATE
AND ADJACENT COASTAL WATERS (IF REQUIRED)

EFFECTIVE (TIME PERIOD) UNTIL hhmm am/pm time_zone.

...THIS IS A PARTICULARLY DANGEROUS SITUATION (IF FORECAST)...

HAIL TO X INCHES IN DIAMETER...THUNDERSTORM WIND GUSTS TO XX MPH...
AND DANGEROUS LIGHTNING ARE POSSIBLE IN THESE AREAS.

NARRATIVE DESCRIPTION OF WATCH AREA USING A LINE AND ANCHOR
POINTS. DISTANCES TO EITHER SIDE OF THE LINE WILL BE IN STATUTE MILES.

CALL TO ACTION STATEMENTS

OTHER WATCH INFORMATION...OTHER WATCHES IN EFFECT AND IF THIS
WATCH REPLACES A PREVIOUS WATCH.

NARRATIVE DISCUSSION OF REASON FOR THE WATCH.

AVIATION...BRIEF DESCRIPTION OF SEVERE WEATHER THREAT TO AVIATORS.
HAIL SIZE WILL BE GIVEN IN INCHES AND WIND GUSTS IN KNOTS. MAXIMUM
STORM TOPS AND A MEAN STORM VECTOR WILL ALSO BE GIVEN.

\$\$

Figure 8. Public Watch Notification Message Format (for Severe Thunderstorms)

8.4 Updates, Amendments and Corrections. Updates are not applicable. SPC will correct watches for format and grammatical errors.

9. **Public Tornado Watch Notification Message (product category SEL).**

9.1 Mission Connection. SPC issues Public Tornado Watch Notification Messages to alert CONUS WFOs, the public, media and emergency managers to organized thunderstorms forecast to produce three or more tornadoes or any tornado which could produce F2 or greater damage.

9.2 Issuance Guidelines.

9.2.1 Creation Software. SPC will use the National Centers NAWIPS text editor.

9.2.2 Issuance Criteria. SPC should issue a Public Tornado Watch Notification Message when there is a forecast of three or more tornadoes or any tornado which could produce F2 or greater damage. The forecast event minimum thresholds should be at least 2 hours over an area at least 8,000 square miles. Below these thresholds, SPC in collaboration with affected WFOs may issue convective watches along coastlines, near the Canadian and Mexican borders, and for any ongoing organized severe convection.

9.2.3 Issuance Time. Public Tornado Watch Notification Messages are non-scheduled, event driven products.

9.2.4 Valid Time. The valid time is from the time of issuance to expiration or cancellation time.

9.2.5 Product Expiration Time. The expiration time is the end of the watch valid time.

9.3 Technical Description. Public Tornado Watch Notification Messages will follow the format and content described in this section.

9.3.1 Mass News Disseminator Broadcast Line. Public Tornado Watch Notification Messages will include the broadcast line “URGENT - IMMEDIATE BROADCAST REQUESTED.” The term “URGENT” is used when the information may wait until a stop-set to be broadcast.

9.3.2 Mass News Disseminator Header. The Public Tornado Watch Notification Message MND header is “TORNADO WATCH nnnn.”

9.3.3 Content. A Public Tornado Watch Notification Message will contain the area description and axis, watch expiration time, the term “damaging tornadoes”, a description of the largest hail size and strongest thunderstorm wind gusts expected, the definition of a watch, a call to action statement, a list of other valid watches, a brief discussion of reasoning, and technical information for the aviation community (see example).

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SPC will include the term “adjacent coastal waters” when the watch affects coastal waters. Adjacent coastal waters refers to a WFO’s near shore responsibility (out to 5 nautical miles for the Great Lakes, and out to 20 nautical miles for oceans). SPC will coordinate with affected WFOs to determine which counties are in the initial watch and meteorological reasoning prior to a watch being issued. SPC will issue a watch cancellation message (under both SEL and SAW products) whenever it cancels a watch. The text of the message will specify the number and area of the cancelled watch. SPC will designate a Public Tornado Watch Notification Message as “particularly dangerous” when there is a likelihood of multiple strong tornadoes (damage of F2 or F3) or at least one violent (damage of F4 or F5) tornado. SPC will refer to tornadoes as “destructive” for PDS Tornado Watches.

9.3.4 Format.

WWUS20 KWNS ddhhmm

SELn

STZ000>099-CWZ000>099-ddhhmm-

URGENT - IMMEDIATE BROADCAST REQUESTED

TORNADO WATCH NUMBER nnnn

NWS STORM PREDICTION CENTER NORMAN OK

time am/pm time_zone day mon dd yyyy

THE STORM PREDICTION CENTER HAS ISSUED A
TORNADO WATCH FOR PORTIONS OF

PORTION OF STATE

PORTION OF STATE

AND ADJACENT COASTAL WATERS (IF REQUIRED)

EFFECTIVE (TIME PERIOD) UNTIL hhmm am/pm time_zone.

...THIS IS A PARTICULARLY DANGEROUS SITUATION (IF FORECAST)...

DESTRUCTIVE TORNADOES...HAIL TO X INCHES IN
DIAMETER...THUNDERSTORM WIND GUSTS TO XX MPH...AND DANGEROUS
LIGHTNING ARE POSSIBLE IN THESE AREAS.

NARRATIVE DESCRIPTION OF WATCH AREA USING A LINE AND ANCHOR
POINTS. DISTANCES TO EITHER SIDE OF THE LINE WILL BE IN STATUTE MILES.

CALL TO ACTION STATEMENTS

OTHER WATCH INFORMATION...OTHER WATCHES IN EFFECT AND IF THIS
WATCH REPLACES A PREVIOUS WATCH.

NARRATIVE DISCUSSION OF REASON FOR THE WATCH.

AVIATION...BRIEF DESCRIPTION OF SEVERE WEATHER THREAT TO AVIATORS.
HAIL SIZE WILL BE GIVEN IN INCHES AND WIND GUSTS IN KNOTS. MAXIMUM
STORM TOPS AND A MEAN STORM VECTOR WILL ALSO BE GIVEN.

\$\$

Figure 9. Public Watch Notification Message Format (for Tornadoes)

9.4 Updates, Amendments and Corrections. Updates are not applicable. SPC will amend Public Watch Notification Messages for format and grammatical errors.

10. **Aviation Watch Notification Message (product category SAW).**

10.1 Mission Connection. SPC issues Aviation Watch Notification Messages to alert the aviation community to organized thunderstorms forecast to produce tornadic and/or severe weather as indicated in Public Watch Notification Messages.

10.2 Issuance Guidelines.

10.2.1 Creation Software. SPC will use the National Centers NAWIPS text editor.

10.2.2 Issuance Criteria. A convective watch is in effect.

10.2.3 Issuance Time. Aviation Watch Notification Messages are non-scheduled, event driven products.

10.2.4 Valid Time. The valid time is from the time of issuance to expiration or cancellation time.

10.2.5 Product Expiration Time. The expiration time is at the end of the watch valid time.

10.3 Technical Description. Aviation Watch Notification Messages will follow the format and content described in this section.

10.3.1 Mass News Disseminator Broadcast Line. Not applicable.

10.3.2 Mass News Disseminator Header. Not applicable.

10.3.3 Content. SPC will issue the SAW after the convective watch area has been collaborated with the affected WFOs. SPC forecasters may define the area as a rectangle (X miles either side of line from point A to point B) or as a parallelogram (X miles north and south or east and west of line from point A to point B). Distances of the axis coordinates should be in statute miles. The aviation coordinates reference navigational aid VHF Omni-Directional Range (VOR) locations and state distances will be in nautical miles. SPC will give valid times in UTC. The watch half width will be in statute miles. The Aviation Watch Notification Message will contain hail size in inches (forecaster discretion for tornado watches associated with hurricanes) surface and aloft, surface convective wind gusts in knots, maximum tops, and the Mean Storm Motion Vector.

10.3.4 Format.

```

WWUS30 KWNS ddhhmm
SAWn
SPC AWW ddhhmm
WWnnnn SEVERE TSTM ST LO DDHHMMZ - DDHHMMZ
AXIS...XX STATUTE MILES EITHER SIDE OF A LINE
XXDIR CCC/LOCATION ST/ - XXDIR CCC/LOCATION ST
..AVIATION COORD.. XX NM EITHER SIDE /XXDIR CCC - XXDIR CCC
HAIL SURFACE AND ALOFT..X X/X INCHES. WIND GUSTS..XX KNOTS.
MAX TOPS TO XXX. MEAN STORM MOTION VECTOR DIR/SPEED

```

Figure 10. Aviation Severe Weather Watch Notification Message Format

10.4 Updates, Amendments and Corrections. Updates and amendments are not applicable. SPC will correct watches for format and grammatical errors.

11. Watch Corner Points Message (product category WCPSPC).

11.1 Mission Connection. SPC issues Watch Corner Points Messages to provide affected customers with outline latitude/longitude coordinates of all active convective watches.

11.2 Issuance Guidelines.

11.2.1 Creation Software. SPC uses automated software.

11.2.2 Issuance Criteria. A convective watch is in effect.

11.2.3 Issuance Time. Watch Corner Points Messages are both event driven and scheduled products.

11.2.4 Valid Time. The valid time is until the issuance of the next scheduled update.

11.2.5 Product Expiration Time. The expiration time is at the end of the watch valid time.

11.3 Technical Description. Watch corner points messages will follow the format and content described in this section.

11.3.1 Mass News Disseminator Broadcast Line. Not applicable.

11.3.2 Mass News Disseminator Header. Not applicable.

11.3.3 Content. SPC will issue Watch Corner Points Messages to provide CONUS WFOs, the public, media and emergency managers with outline latitude/longitude coordinates of all valid watches. These points are used for the radar summary chart when watches are valid.

11.3.4 Format.

(Watches in Effect)

WWUS60 KWNS ddhhmm
WCPSPC

SEVR 971126 1801 WT0792 2300
02903.09250 03135.09136 03135.08822 02903.08941 02903.08941;

SEVR 971126 1801 WT0793 0000
02957.0811 03248.08751 03248.08456 02957.08621 02903.08941 02903.08941;

(No Watch in Effect)

WWUS60 KWNS ddhhmm
WCPSPC

FILE CREATED DD-MMM-YY AT HH:MM:SS UTC
NO WATCHES CURRENTLY ACTIVE

Figure 11. Watch Corner Points Message Format

11.3 Updates, Amendments and Corrections. Updates are scheduled. SPC will correct messages for format and grammatical errors.

12. **Watch Status Message (product category WWASPC).**

12.1 Mission Connection. SPC issues Watch Status Messages to provide CONUS WFOs with an internal assessment of the severe weather threat within each active convective watch area.

12.2 Issuance Guidelines.

12.2.1 Creation Software. SPC uses the National Centers NAWIPS text editor.

12.2.2 Issuance Criteria. A convective watch is in effect.

12.2.3 Issuance Time. SPC should issue a Watch Status Message at 30 minutes past the hour for each active convective watch area.

12.2.4 Valid Time. The status message is valid for one hour.

12.2.5 Product Expiration Time. The expiration time is one hour after the issuance time.

12.3 Technical Description. Watch status messages will follow the format and content described in this section.

12.3.1 Mass News Disseminator Broadcast Line. Not applicable.

12.3.2 Mass News Disseminator Header. Not applicable.

12.3.3 Content. SPC uses the Watch Status Message to help CONUS WFOs determine portions of a convective watch they cancel or extend in time and/or area from their county warning area. This internal message will include a recommendation to the affected WFOs on where to cancel or extend in time and/or area active convective watches. This message will also provide guidance to affected WFOs on where additional convective watches may be needed. SPC should refer customers to related mesoscale convective discussions (product SWOMCD) for additional information on mesoscale features related to the severe weather hazard.

12.3.4 Format.

```
WOUS20 KWNS ddhhmm  
WWASPC  
SPC-WWA ddhhmm  
STZ000-STZ000-STZ000-ddhhmm
```

```
STATUS REPORT ON WT (or WS) nnnn
```

```
SEVERE WEATHER THREAT CONTINUES TO THE RIGHT OF A LINE FROM XX DIR  
CCC...XX DIR CCC...XX DIR CCC.
```

```
FOR ADDITIONAL INFORMATION...SEE MESOSCALE DISCUSSION XXX.
```

```
$$
```

```
...FORECASTER NAME...MM/DD/YY
```

Figure 12. Watch Status Message Format

12.4 Updates, Amendments and Corrections. Updates should be issued at the bottom of each hour. SPC will amend messages for format and grammatical errors.

13. **Hourly Severe Weather Report Log (product category STAHR).**

13.1 Mission Connection. SPC issues Hourly Severe Weather Report Logs to provide WFOs, the public, media and emergency managers with hourly text and graphical reports of severe weather events on a national scale.

13.2 Issuance Guidelines.

13.2.1 Creation Software. SPC uses automated software.

13.2.2 Issuance Criteria. WFOs issue new Preliminary Local Storm Reports (LSR) since the last hourly report.

13.2.3 Issuance Time. SPC will issue a report each hour.

13.2.4 Valid Time. Reports are valid upon issuance.

13.2.5 Product Expiration Time. Not applicable.

13.3 Technical Description. Hourly reports will follow the format and content described in this section.

13.3.1 Mass News Disseminator Broadcast Line. None.

13.3.2 Mass News Disseminator Header. The Hourly Report MND header is “SPC HOURLY TORNADO AND SEVERE THUNDERSTORM REPORTS.”

13.3.3 Content. SPC issues hourly report logs to inform the public, the media and emergency managers to severe weather events on a national scale. SPC updates this log on a hourly basis and lists all events since 1200 UTC. Severe weather events reported in Preliminary Storm Reports (LSR) are automatically included in hourly report logs. Events reported in other products as Severe Weather Statements (SVS) or other sources will be manually inserted into hourly report logs if noticed or received. These reports are preliminary information. Final severe weather event information is found in monthly Storm Data reports (see NWSI 10-1605 “Storm Data Preparation”) published by each WFO.

13.3.4 Format.

NWUS20 KWNS 111033
STAHRY

SPC HOURLY TORNADO AND SEVERE THUNDERSTORM REPORTS
NWS STORM PREDICTION CENTER NORMAN OK
433 AM CST WED OCT 11 2000

SPC TORNADO AND SEVERE THUNDERSTORM REPORTS
UNOFFICIAL - FOR OFFICIAL REPORTS, SEE PUBLICATION 'STORM DATA'
FOR 06CST TUE OCT 10 2000 THRU 22CST TUE OCT 10 2000

EVENT	LOCATION	REMARKS	(CST)TIME
-------	----------	---------	-----------

TORNADO REPORTS.....TORNADO REPORTS.....TORNADO REPORTS.....

80	*TORN 2 SW DUSTER TX	(28 WSW SEP)	10/2145
	PSBL TORNADO; HOMES DMGD; SVRL PERSONS	FTW/LSR	32139865
	HOSPITALIZED		

.....LRG HAIL/STRONG WIND RPTS.....LRG HAIL/STRONG WIND RPTS.....

55	A450 PROFFITT TX	(55 WNW MWL)	10/1905
		FTW/LSR	33199888
12	WNDG BRADY TX	(49 NNE JCT)	10/1642
	SIGNS DOWN,STEEPLE OFF CHURCH; TREES & POWER	SJT/LSR	31139933
	POLES DOWN.		
2	G 56 DRYDEN TX	(17 E P07)	10/1420
	60-70 MPH WND; SPOTTER RPRT	MAF/SVS	300510211

.....OTHER SEVERE REPORTS.....OTHER SEVERE REPORTS.....

91	A 75 ADDICKS TX	(24 WNW HOU)	10/1215
	DIME SIZED HAIL NR LAMAR HIGH SCHOOL	HOU/LSR	29789565

\$\$

Figure 13. Hourly Report Log Format

How to read an SPC report log:

Event Number: 80 (in chronological order, the 80th severe event received during this 24 hour period).

Event: "*TORN" Tornado.

Location: Occurred 2 SW Duster, TX. Referenced to the closest airport, the Tornado occurred 28 miles west-southwest of Stephenville, TX.

Date/Time: 10/2145 Occurred on the 10th day of the month at 2145 CST.

Details: They are calling this a possible tornado. Further investigation may or may not support this. The event resulted in the hospitalization of several people.

Source: FTW/LSR. Preliminary Local Storm Report issued by the National Weather Service office at Fort Worth, Texas.

Coordinates: The report location was at 32.13 degrees north, 98.65 degrees west.

13.4 Updates, Amendments and Corrections. This product is issued hourly and is not updated. SPC will correct reports for format and grammatical errors.

14. **Daily Severe Weather Report Log (product category STADTS).**

14.1 Mission Connection. SPC issues Daily Severe Weather Report Logs to provide CONUS WFOs, the public, media and emergency managers with text and graphical reports of severe weather events on a national scale for the previous day.

14.2 Issuance Guidelines.

14.2.1 Creation Software. SPC uses automated software.

14.2.2 Issuance Criteria. SPC issues this type of report log daily at 1200 UTC.

14.2.3 Issuance Time. The issuance time will be 1200 UTC. SPC will issue an update at 1800 UTC.

14.2.4 Valid Time. Reports are valid upon issuance.

14.2.5 Product Expiration Time. Not applicable.

14.3 Technical Description. Daily reports will follow the format and content described in this section.

14.3.1 Mass News Disseminator Broadcast Line. None.

14.3.2 Mass News Disseminator Header. The Daily Report MND header is “SPC DAILY TORNADO AND SEVERE THUNDERSTORM REPORTS.”

14.3.3 Content. SPC issues daily report logs in a text and graphical format to inform the public, the media and emergency managers to severe weather events on a national scale for the previous day. These reports are preliminary information. Final severe weather event information is found in monthly Storm Data reports (see NWSI 10-1605 “Storm Data Preparation”) published by each WFO.

14.3.4 Format.

NWUS20 KWNS 111033
STADTS

SPC DAILY TORNADO AND SEVERE THUNDERSTORM REPORTS
NWS STORM PREDICTION CENTER NORMAN OK
433 AM CST WED OCT 11 2000

SPC TORNADO AND SEVERE THUNDERSTORM REPORTS
UNOFFICIAL - FOR OFFICIAL REPORTS, SEE PUBLICATION 'STORM DATA'
FOR 12CST TUE OCT 10 2000 THRU 12CST WED OCT 11 2000

EVENT	LOCATION	REMARKS	(CST)TIME
TORNADO REPORTS.....TORNADO REPORTS.....TORNADO REPORTS.....			
80 *TORN	2 SW DUSTER TX	(28 WSW SEP)	10/2145
	PSBL TORNADO; HOMES DMGD; SVRL PERSONS HOSPITALIZED	FTW/LSR	32139865
.....LRG HAIL/STRONG WIND RPTS.....LRG HAIL/STRONG WIND RPTS.....			
55 A450	PROFFITT TX	(55 WNW MWL)	10/1905
		FTW/LSR	33199888
12 WNDG	BRADY TX	(49 NNE JCT)	10/1642
	SIGNS DOWN. STEEPLE OFF CHURCH; TREES & POWER POLES DOWN.	SJT/LSR	31139933
2 G 56	DRYDEN TX	(17 E P07)	10/1420
	60-70 MPH WND; SPOTTER RPRT	MAF/SVS	300510211
.....OTHER SEVERE REPORTS.....OTHER SEVERE REPORTS.....			
91 A 75	ADDICKS TX	24 WNW HOU)	10/1215
	DIME SIZED HAIL NR LAMAR HIGH SCHOOL	HOU/LSR	29789565

\$\$

Figure 14. Daily Report Log Format

How to read an SPC report log:

Event Number: 80 (in chronological order, the 80th severe event received during this 24 hour period).

Event: "*TORN" Tornado.

Location: Occurred 2 SW Duster, TX. Referenced to the closest airport, the Tornado occurred 28 miles west-southwest of Stephenville, TX.

Date/Time: 10/2145 Occurred on the 10th day of the month at 2145 CST.

Details: They are calling this a possible tornado. Further investigation may or may not support this. The event resulted in the hospitalization of several people.

Source: FTW/LSR. Preliminary Local Storm Report issued by the National Weather Service office at Fort Worth, Texas.

Coordinates: The report location was at 32.13 degrees north, 98.65 degrees west.

14.4 Updates, Amendments and Corrections. SPC issues a scheduled update at 1800 UTC. SPC will rerun the program, at times, to add additional data from late LSRs into this report.

15. **Monthly Tornado Statistics (product category STAMTS).**

15.1 Mission Connection. SPC issues Monthly Tornado Summary to provide WFOs, the public, media and emergency managers with a preliminary number of tornado reports on a national scale.

15.2 Issuance Guidelines.

15.2.1 Creation Software. SPC will use the National Centers NAWIPS text editor.

15.2.2 Issuance Criteria. This summary is a scheduled product.

15.2.3 Issuance Time. SPC will issue this summary Monday through Friday at 1200 UTC.

15.2.4 Valid Time. Summaries are valid upon issuance.

15.2.5 Product Expiration Time. Not applicable.

15.3 Technical Description. Summaries will follow the format and content described in this section.

15.3.1 Mass News Disseminator Broadcast Line. None.

15.3.2 MND Header. The Monthly Summary MND header is “STATISTICS FOR TORNADO TOTALS AND TORNADO RELATED DEATHS.”

15.3.3 Content. This summary tabulates the preliminary number of tornado reports listed in WFO LSR(s) issued during the previous month. These numbers consist of reported and confirmed tornadoes. SPC will update the count of tornadoes when Storm Data is available. The national verification program, the National Climatic Data Center, and SPC will confirm the total number of tornadoes, and provide the final update to the monthly summary.

The monthly summary will include data from each of the last three years, and a three year average. The summary will also include the number of killer tornadoes and number of deaths for the current year and three year average.

The summary lists the monthly number of tornadoes for the current and previous two years, and a three year average. The summary also lists statistics for the number of tornado deaths each month of the current year and previous two years, and a three year average. The summary will include the killer tornadoes for the current year and previous two years.

15.3.4 Format.

NWUS21 KWNS 151615
STAMTS

MONTHLY TORNADO STATISTICS
NWS STORM PREDICTION CENTER NORMAN OK
1015 AM CST WED FEB 15 2000

STORM PREDICTION CENTER (NORMAN OK)...THROUGH 6 AM CDT 02/15/00
STATISTICS FOR TORNADO TOTALS AND TORNADO RELATED DEATHS

.....NUMBER OF TORNADOES.....								NUMBER OF TORNADO DEATHS					KILLER		
TORNADOES2000.....	1999.....		1998	1997	3YR	3YR							
	PRELIM	SEGMT	PRELIM	SEGMT	FINAL	FINAL	AVG	00	99	98	97	AVG	00	99	98
JAN	169	-	20	49	50	35	45	19	-	2	1	2	9	-	2
FEB	9	-	56	78	23	14	38	-	41	1	1	14	-	4	1
MAR	-	-	66	80	102	71	84	-	16	28	6	17	-	4	9
APR	-	-	196	208	114	177	166	-	55	1	12	23	-	14	1
MAY	-	-	309	326	225	235	262	-	10	29	1	13	-	5	3
JUN	-	-	372	400	193	128	240	-	3	-	-	1	-	2	-
JUL	-	-	59	82	188	202	157	-	-	4	1	2	-	-	4
AUG	-	-	32	64	84	72	73	-	-	1	-	1	-	-	1
SEP	-	-	61	109	32	101	81	-	2	1	-	1	-	2	1
OCT	-	-	64	66	100	68	78	-	2	-	-	1	-	2	-
NOV	-	-	18	19	25	55	33	-	-	-	2	1	-	-	-
DEC	-	-	1	-	12	15	15	-	-	-	1	1	-	-	-
SUM	178	-	1254	1481	1148	1173	1272	19	129	67	25	77	9	33	22

SEGMT= NUMBER OF TORNADO SEGMENTS
FINAL=ACTUAL TORNADOES

\$\$

MCCARTHY

Figure 15. Monthly Tornado Statistics Format

The statistics are broken down by month and contain data for the last four years. A "-" in a column means the data is missing or not yet available.

The SPC does not include reports of "unconfirmed" or "possible" tornadoes in the PRELIM numbers. The "SEGMT" column lists the number of counties where tornadoes occurred (if one tornado is on the ground in two counties, 'SEGMT' gets incremented by two for that tornado).

When the digital Storm Data database arrives from the NWS Office of Services, FINAL numbers go in that column. Those include removal of any erroneous/duplicate reports or added reports which were initially missed or classified incorrectly. The FINAL numbers are not whole tornadoes, but instead county-segments of tornado tracks, which accounts for much of the increase between PRELIM and FINAL.

Along the bottom of the report are totals for the columns and a simplified re-cap. In the example, there were 1254 preliminary (PRELIM) reports of tornadoes in 1999, versus 1481 tornado segments FINAL through Dec 1, 1999.

15.4 Updates, Amendments and Corrections. SPC should update this report at least twice per month. SPC will correct reports for inaccurate statistical information, when possible.

16. **Killer Tornado Statistics (product category STATIJ).**

16.1 Mission Connection. SPC issues Killer Tornado Statistics to provide WFOs, the public, media and emergency managers with a list of the dates, locations and number of deaths due to tornadoes since the start of the calendar year on a national scale.

16.2 Issuance Guidelines.

16.2.1 Creation Software. SPC will use the National Centers NAWIPS text editor.

16.2.2 Issuance Criteria. SPC issues a new list of statistics following new killer tornado events.

16.2.3 Issuance Time. This list is non-scheduled, event driven.

16.2.4 Valid Time. Lists are valid upon issuance.

16.2.5 Product Expiration Time. Not applicable.

16.3 Technical Description. Lists will follow the format and content described in this section.

16.3.1 Mass News Disseminator Broadcast Line. None.

16.3.2 Mass News Disseminator Header. The Statistics MND header is “(YEAR) KILLER TORNADOES.”

16.3.3 Content. This summary will list the dates, times, locations, and number of deaths from killer tornadoes from Jan 1 to the time of the latest report, whether the deaths occurred in a tornado or severe thunderstorm watch, near a watch, or with no watch in effect, the watch number where the death occurred, and the F-scale damage, if available. The summary should list the circumstances in which each death occurred. The summary will list the number of tornado deaths by state.

16.3.4 Format.

```

NWUS23 KWNS 251415
STATIJ
STORM PREDICTION CENTER (NORMAN OK)

KILLER TORNADO STATISTICS
NWS STORM PREDICTION CENTER NORMAN OK
815 AM CST WED JAN 25 2000

2001 KILLER TORNADOES
PRELIMINARY-SUBJECT TO CHANGE

# DATE    TIME    LOCATION          DEATHS    A  B  C  D  WATCH  F  CIRCUMST
# =====  =====  =====  =====  =  =  =  =  =====  ==  =====
1 JAN 02    0040  BUNA TX          1      1  0  0  0  WT0003  F2  01M
2 JAN 17    1825  JACKSON TN       7      7  0  0  0  WT0012  F4  07
3 JAN 17    1900  SAULSBURY TN     1      1  0  0  0  WT0012  F1  01
4 JAN 17    1905  ATWOOD TN       1      1  0  0  0  WT0013  F?  01
5 JAN 21    1720  CENTER HILL AR   2      2  0  0  0  WT0018  F2  01M  01V
6 JAN 21    1720  PLEASANT PLAINS AR 1      1  0  0  0  WT0018  F2  01M
7 JAN 21    1847  LITTLE ROCK AR   3      3  0  0  0  WT0018  F3  01M  01V  01P
8 JAN 21    1935  BEEBE AR        2      2  0  0  0  WT0018  F3  02H
9 JAN 22    0330  7N CAMDEN TN     1      1  0  0  0  WT0027  F3  01O

TOTALS:          --  --  --  --  --
BY STATE:  TN 10  AR 08  TX 01
BY CIRCUMSTANCE: 04M 02H 02V 01O 01P 09
PRELIMINARY THRU 30 JAN 01.

$$

... EDWARDS ...

```

Figure 16. Killer Tornado Statistics Format

The killer tornadoes are listed in the chronological order they happened, by DATE and CST TIME. LOCATION is self-explanatory. DEATHS is number of deaths in the whole tornado path -- not just the given location. The ABCD column letters represent the number of deaths:

- A = In tornado watch
- B = In severe thunderstorm watch
- C = "Close" to the watch (15 minutes or 25 miles)
- D = No watch in effect

If the tornado was in a watch, the watch type and number is given. For example, WT0012 is Tornado Watch number 12. If known, the F-scale damage rating of the tornado is listed; if not, a "?" mark is entered. The deaths are broken down by the following circumstances of the victims, if known:

- H = House (permanent foundation)
- M = Mobile home (a.k.a. "manufactured home")
- O = Outdoors (not inside any vehicle, mobile home or permanent building)

P = Permanent structure (school, garage, factory, store, warehouse, etc.)

V = Vehicle (includes parked RVs)

Information for the killer tornadoes list comes from LSRs and Public Information Statements (PNS) issued by WFOs, supplemented by NWS event memorandums and media accounts. Since killer tornado information, especially death counts, circumstances and F scale, is often not complete until many days later, these numbers are subject to change as more information arrives.

16.4 Updates, Amendments and Corrections. SPC will update this report as the information becomes available and is deemed reliable. SPC will correct reports for statistical errors.

17. **Operations Administrative Message (product category ADMSPC).**

17.1 Mission Connection. SPC issues Operations Administrative Messages to inform WFOs of changes in SPC operational status (going to or from backup operations) or communications issues (i.e. advance notice of upcoming test convective watches).

APPENDIX A - Examples

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1. Introduction. This appendix provides WFOs and the public with examples of national severe weather products.
2. Categorical Convective Outlook (Graphic).

(Day One Outlook)

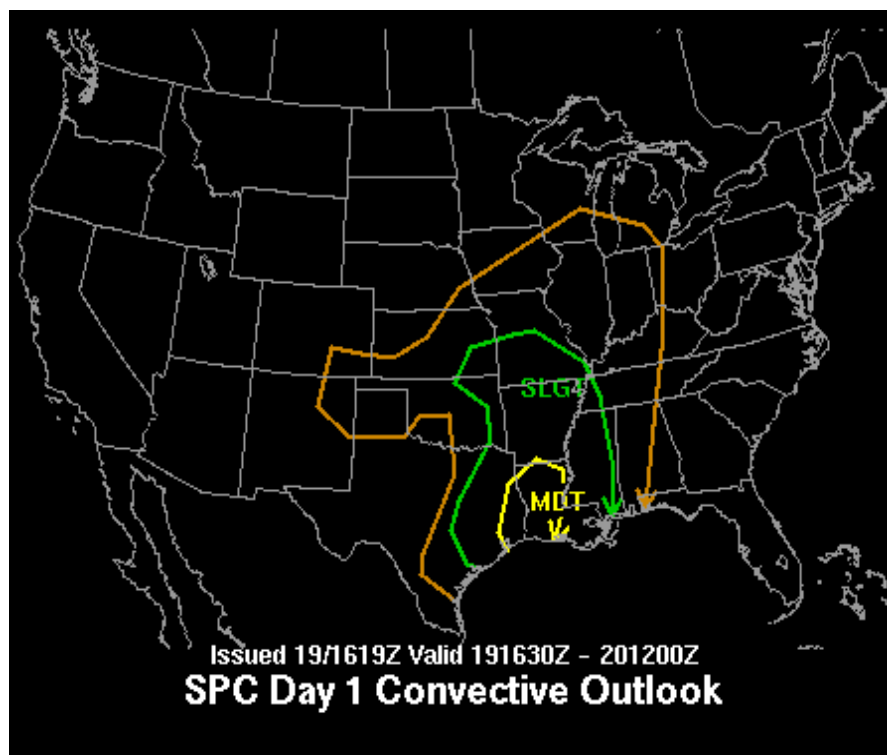


Figure 2. Categorical Convective Outlook

3. Categorical Convective Outlook (Narrative).

STORM PREDICTION CENTER...NWS/NCEP...NORMAN OK
DAY 1 CONVECTIVE OUTLOOK...REF AWIPS GRAPHIC PGWE46 KWNS.

VALID 201200Z - 211200Z

THERE IS A SLGT RISK OF SVR TSTMS TO THE RIGHT OF A LINE FROM
25 E GPT 20 SE CBM 45 E MKL EVV IND MIE 35 S FDY ZZV 25 WNW PKB
HTS TYS LGC 40 SSW CSG 35 NE MAI 30 NE TLH 30 SE TLH.

GEN TSTMS ARE FCST TO THE RIGHT OF A LINE FROM DAB 15 WNW PIE
...CONT... 35 SSW HUM MSY LUL MEI CBM MKL SPI PIA MMO GRR
50 NNE MTC ...CONT... 35 NW JHW DUJ 40 SSE LBE EKN SSU ROA LYH DCA
DOV 20 SSE ACY.

NWSI 10-512 OCTOBER 1, 2003

--- SYNOPSIS ---

DOMINANT MIDDLE-UPPER LEVEL FEATURE REMAINS LONGWAVE TROUGH OVER CENTRAL CONUS -- WHICH IS FORECAST TO SHIFT EWD THROUGH PERIOD. POSITIVELY TILTED SHORTWAVE TROUGH NOW OVER OK/TX WILL EJECT NEWD AROUND SERN PERIPHERY OF DEEP-TROPOSPHERIC CYCLONE FORECAST TO MOVE NEWD ACROSS CENTRAL/ERN GREAT LAKES. ASSOCIATED SURFACE COLD FRONT-- ANALYZED FROM IA SWWD ACROSS W TX ATTM -- IS EXPECTED TO CATCH ERN TX DRYLINE AROUND BEGINNING OF PERIOD...THEN MOVE EWD ACROSS LOWER-MID MS VALLEY. FRONT SHOULD REACH CAROLINAS AND NRN FL BY 21/12Z.

--- SERN CONUS ---

GREATEST DESTABILIZATION IS PROGGED TO LAG BEHIND PRIMARY CONVECTIVE/CONFLUENCE BAND...AND OCCUR IN REGIME OF VEERED BOUNDARY LAYER FLOW AHEAD OF COLD FRONT. THIS VEERING APPEARS REASONABLE WITH STRONGEST ISALLOBARIC FIELDS FORECAST TO CONTINUE LIFTING AWAY FROM AREA IN ASSOCIATION WITH INCREASINGLY STACKED GREAT LAKES CYCLONE. THEREFORE...DESPITE FAVORABLE THERMODYNAMIC SUPPORT FOR SEVERE IF CONVECTION WERE TO FORM...MLCAPES 1000-2000 J/KG POSSIBLE FROM MID TN SWD...CONVERGENCE ALONG COLD FRONT SHOULD BE RELATIVELY WEAK. POSSIBLE EXCEPTION IS WITHIN 200-300 NM SSE OF SURFACE CYCLONE OVER PORTIONS INDIANA/OH...BUT INSTABILITY WILL BE LIMITED THAT FAR N.

MOST ACTIVITY SHOULD REMAIN CONFINED TO PREFRONTAL CONFLUENCE LINE. KINEMATIC FIELDS AROUND THIS ACTIVITY WILL CONTINUE TO BE STRONG -- SUPPORTING WIND DAMAGE THREAT -- HOWEVER COVERAGE OF EVENTS SHOULD BE LIMITED BY RELATIVELY WEAK LAPSE RATES...LIMITED HEATING AND MARGINAL CAPE IN INFLOW SECTOR. MLCAPES GENERALLY AOB 1000 J/KG EXPECTED EXCEPT NEAR GULF COAST WHERE MID 60S SURFACE DEW POINTS MAY YIELD 1000-1500 J/KG RANGE CAPES.

\$\$

..EDWARDS.. 02/20/02

NOTE: THE NEXT DAY 1 OUTLOOK IS SCHEDULED FOR 1300Z

4. SPC Points Product.

KWNSPTSDY2

DAY 2 CONVECTIVE OUTLOOK AREAL OUTLINE
STORM PREDICTION CENTER...NWS/NCEP...NORMAN OK
1044 AM CST THU MAR 07 2002

VALID TIME 081200Z - 091200Z

Probabilistic Outlook Points Day 2

... ANY SEVERE ...

0.05	31588905 30759215 29899578 28759842 29349965 30729954 32309886 34359805 36419888 37669935 38699875 40309672 41999406 43229093 43688783 43328549 42448470 39388453 36828582 33158765 31588905
0.15	31389518 32019700 32939773 35149756 36359783 37189817 38249776 39789622 41569321 41689103 41038914 39308715 38058655 36458734 34138926 32589096 31389518
0.25	34649265 33369320 32719532 33799686 37369748 39019667 40639398 40749265 39509210 34649265
SIGN	39489439 38589335 35109281 33009342 32649552 33589681 35729726 37909765 39279617 39489439

Categorical Outlook Points Day 2

... CATEGORICAL ...

SLGT	31389518 32019700 32939773 35149756 36359783 37189817 38249776 39789622 41569321 41689103 41038914 39308715 38058655 36458734 34138926 32589096 31389518
TSTM	29549462 29669615 28759869 29459979 30889950 34319815 37749936 38789854 43459236 47328524
TSTM	42448083 38798250 33678670 29299162

\$\$

5. Public Severe Weather Outlook.

WOUS36 KNWS 211703
PWOSPC
ARZ000-LAZ000-TNZ000-MSZ000-220000-

PUBLIC SEVERE WEATHER OUTLOOK
STORM PREDICTION CENTER NORMAN OK
1100 AM CST THU 21 JAN 1999

...OUTBREAK OF SEVERE THUNDERSTORMS INCLUDING A FEW INTENSE
TORNADOES ARE EXPECTED OVER PARTS OF THE LOWER MISSISSIPPI VALLEY
THIS AFTERNOON THROUGH TONIGHT...

THE STORM PREDICTION CENTER IN NORMAN OK IS FORECASTING THE
DEVELOPMENT OF A FEW INTENSE TORNADOES OVER PARTS OF THE LOWER
MISSISSIPPI VALLEY AND SOUTH CENTRAL STATES LATER TODAY THROUGH
TONIGHT.

THE AREAS MOST LIKELY TO EXPERIENCE THIS ACTIVITY INCLUDE:
MUCH OF ARKANSAS
NORTHERN LOUISIANA
SOUTHWESTERN TENNESSEE
NORTHERN MISSISSIPPI

STRONG LOW LEVEL SOUTHERLY WINDS HAVE PUSHED WARM MOIST AIR FROM
THE GULF OF MEXICO NORTHWARD ACROSS THE LOWER MISSISSIPPI VALLEY
REGION THIS MORNING. TO THE NORTHWEST...MUCH COLDER AIR FROM CANADA IS BEGINNING
TO MOVE SOUTHEASTWARD BEHIND A STRONG COLD FRONT. LATE THIS AFTERNOON AND
TONIGHT...THUNDERSTORMS WILL RAPIDLY INTENSIFY ALONG OR JUST AHEAD OF THE COLD
FRONT OVER WESTERN ARKANSAS AND WESTERN LOUISIANA WITH ACTIVITY MOVING
EASTWARD TOWARD THE LOWER MISSISSIPPI RIVER VALLEY OVERNIGHT. WINDS IN THE UPPER
PORTIONS OF THE ATMOSPHERE WILL HAVE SPEEDS NEAR 100 MILES AN HOUR CREATING
FAVORABLE CONDITIONS FOR A FEW VERY DESTRUCTIVE TORNADOES. IN ADDITION...COLD DRY
AIR ALOFT WILL RESULT IN WIDESPREAD AREAS OF LARGE HAIL AND DAMAGING WINDS.

THIS IS POTENTIALLY A VERY DANGEROUS SITUATION. THOSE IN THE
THREATENED AREA ARE URGED TO REVIEW SEVERE WEATHER SAFETY RULES,
AND TO LISTEN TO RADIO AND TELEVISION AND NOAA WEATHER RADIO FOR
POSSIBLE WATCHES, WARNINGS AND STATEMENTS LATER TODAY.

\$\$

6. Watch County List.

NWUS64 KWNS 261705
WCLA

.TORNADO WATCH 1002
COORDINATION COUNTY LIST FROM THE STORM PREDICTION CENTER EFFECTIVE UNTIL 0200
UTC.

ARC013-019-025-027-029-033-039-045-047-051-053-057-059-061-073-081-083-085-
091-097-099-103-105-109-113-115-119-125-127-131-133-139-149-270100-

AR

. ARKANSAS COUNTIES INCLUDED ARE

BRADLEY	CALHOUN	CLARK
CLEVELAND	COLUMBIA	CONWAY
DALLAS	FAULKNER	GARLAND
GRANT	HEMPSTEAD	HOT SPRING
HOWARD	JEFFERSON	LAFAYETTE
LITTLE RIVER	LOGAN	LONOKE
MILLER	MONTGOMERY	NEVADA
OUACHITA	PERRY	PIKE
POLK	PULASKI	SALINE
SCOTT	SEBASTIAN	SEVIER
UNION	WHITE	YELL
\$\$		

LAC013-015-017-027-031-081-119-270100-

LA

. LOUISIANA PARISHES INCLUDED ARE

BIENVILLE	BOSSIER	CADDO
CLAIBORNE	LINCOLN	UNION
WEBSTER		
\$\$		

TXC037-063-067-183-203-315-365-459-270100-

TX

. TEXAS COUNTIES INCLUDED ARE

BOWIE	CAMP	CASS
HARRISON	MARION	MORRIS
UPSHUR		
\$\$		

ATTN...WFO...SHV...FTW...LZK...

7. Watch Outline Update Message

Initial Issuance

WOUS64 KWNS 261750
WOU1

TORNADO WATCH OUTLINE UPDATE FOR WT 1002
NWS STORM PREDICTION CENTER NORMAN OK
1250 PM CDT SUN MAY 26 2001

TORNADO WATCH 1002 IS IN EFFECT UNTIL 7:00 PM CDT FOR THE FOLLOWING LOCATIONS:

ARC013-019-025-027-029-033-039-045-047-051-053-057-059-061-073-081-083-085-
091-097-099-103-105-109-113-115-119-125-127-131-133-139-149-270100-

AR

. ARKANSAS COUNTIES INCLUDED ARE

CALHOUN	CLARK	CLEVELAND
COLUMBIA	CONWAY	CRAWFORD
DALLAS	FAULKNER	FRANKLIN
GARLAND	GRANT	HEMPSTEAD
HOT SPRING	HOWARD	LAFAYETTE
LITTLE RIVER	LOGAN	LONOKE
MILLER	MONTGOMERY	NEVADA
OUACHITA	PERRY	PIKE
POLK	POPE	PULASKI
SALINE	SCOTT	SEBASTIAN
SEVIER	UNION	YELL
\$\$		

LAC013-015-017-027-031-081-119-270100-

LA

. LOUISIANA PARISHES INCLUDED ARE

BIENVILLE	BOSSIER	CADDO
CLAIBORNE	DE SOTO	RED RIVER
WEBSTER		
\$\$		

TXC037-063-067-183-203-315-365-459-270100-

TX

. TEXAS COUNTIES INCLUDED ARE

BOWIE	CAMP	CASS
GREGG	HARRISON	MARION
MORRIS	PANOLA	UPSHUR
\$\$		

ATTN...WFO...SHV...FTW...LZK...

NWSI 10-512 OCTOBER 1, 2003

WOUS64 KWNS 281950
WOU2

SEVERE THUNDERSTORM WATCH OUTLINE UPDATE FOR WS 1530
NWS STORM PREDICTION CENTER NORMAN OK
1250 PM MST (1150 AM PST) MON OCT 28 2002

SEVERE THUNDERSTORM WATCH 1530 IS IN EFFECT UNTIL 9:00 PM MST (8:00 PM PDT) FOR THE
FOLLOWING LOCATIONS:

AZC012-015-027-290400-

AZ

. ARIZONA COUNTIES INCLUDED ARE

LAPAZ	MOHAVE	YUMA
\$\$		

CAC025-065-071-290400-

CA

. CALIFORNIA COUNTIES INCLUDED ARE

IMPERIAL	RIVERSIDE	SAN BERNADINO
\$\$		

NVC003-290400-

NV

. NEVADA COUNTIES INCLUDED ARE

CLARK
\$\$

ATTN...WFO...VEF...PSR...

Hourly Updates

WOUS64 KWNS 261950
WOU2

TORNADO WATCH OUTLINE UPDATE FOR WT 1002
NWS STORM PREDICTION CENTER NORMAN OK
258 PM CDT SUN MAY 26 2001

TORNADO WATCH 1002 REMAINS IN EFFECT UNTIL 7:00 PM CDT FOR THE FOLLOWING
LOCATIONS:

ARC013-019-025-027-029-039-045-051-053-057-059-073-085-091-099-103-105-119-125-139-
270100-

AR

. ARKANSAS COUNTIES INCLUDED ARE

CALHOUN	CLARK	CLEVELAND
COLUMBIA	CONWAY	CRAWFORD
DALLAS	FAULKNER	FRANKLIN
GARLAND	GRANT	HEMPSTEAD
HOT SPRING	HOWARD	LAFAYETTE
LITTLE RIVER	LOGAN	LONOKE
MILLER	MONTGOMERY	NEVADA
OUACHITA	PERRY	PIKE
POLK	POPE	PULASKI
SALINE	SCOTT	SEBASTIAN
SEVIER	UNION	YELL
\$\$		

LAC013-015-017-027-031-081-119-270100-

LA

. LOUISIANA PARISHES INCLUDED ARE

BIENVILLE	BOSSIER	CADDO
CLAIBORNE	DE SOTO	RED RIVER
WEBSTER		
\$\$		

TXC037-063-067-183-203-315-365-459-270100-

TX

. TEXAS COUNTIES INCLUDED ARE

BOWIE	CAMP	CASS
GREGG	HARRISON	MARION
MORRIS	PANOLA	UPSHUR
\$\$		

ATTN...WFO...SHV...FTW...LZK...

NWSI 10-512 OCTOBER 1, 2003

WOUS64 KWNS 282300
WOU2

SEVERE THUNDERSTORM WATCH OUTLINE UPDATE FOR WS 1530
NWS STORM PREDICTION CENTER NORMAN OK
358 PM MST (258 PM PST) MON OCT 28 2002

SEVERE THUNDERSTORM WATCH 1530 REMAINS IN EFFECT UNTIL 9:00 PM MST (8:00 PM PDT) FOR
THE FOLLOWING LOCATIONS:

AZC012-027-290400-

AZ

. ARIZONA COUNTIES INCLUDED ARE

LAPAZ YUMA
\$\$

CAC025-290400-

CA

. CALIFORNIA COUNTIES INCLUDED ARE

IMPERIAL
\$\$

ATTN...WFO...PSR...

8. Public Watch Notification Message (Tornado and Severe Thunderstorm).

WWUS20 KWNS 011729
SEL7
SDZ000-020000-

BULLETIN - IMMEDIATE BROADCAST REQUESTED
TORNADO WATCH NUMBER 547
STORM PREDICTION CENTER NORMAN OK
1229 PM CDT TUE JUL 1 1997

THE STORM PREDICTION CENTER HAS ISSUED A
TORNADO WATCH FOR PORTIONS OF

EASTERN SOUTH DAKOTA

EFFECTIVE THIS TUESDAY AFTERNOON AND EVENING FROM 100 PM UNTIL 700
PM CDT.

TORNADOES...HAIL TO 2 INCHES IN DIAMETER...THUNDERSTORM WIND GUSTS
TO 75 MPH...AND DANGEROUS LIGHTNING ARE POSSIBLE IN THESE AREAS.

THE TORNADO WATCH AREA IS ALONG AND 70 STATUTE MILES EAST AND WEST
OF A LINE FROM 40 MILES NORTH NORTHEAST OF ABERDEEN SOUTH DAKOTA TO
25 MILES SOUTHEAST OF MITCHELL SOUTH DAKOTA.

REMEMBER...A TORNADO WATCH MEANS CONDITIONS ARE FAVORABLE FOR
TORNADOES AND SEVERE THUNDERSTORMS IN AND CLOSE TO THE WATCH AREA. PERSONS IN
THESE AREAS SHOULD BE ON THE LOOKOUT FOR THREATENING WEATHER CONDITIONS AND
LISTEN FOR LATER STATEMENTS AND POSSIBLE WARNINGS.

OTHER WATCH INFORMATION...THIS TORNADO WATCH REPLACES TORNADO WATCH NUMBER
546. WATCH NUMBER 546 WILL NOT BE IN EFFECT AFTER 100 PM CDT.

DISCUSSION...LINE OF THUNDERSTORMS HAS SHOWN SIGNS OF ORGANIZING
OVER CENTRAL SOUTH DAKOTA IN ADVANCE OF VIGOROUS UPPER TROUGH
MOVING TOWARD THE HIGH PLAINS. SATELLITE IMAGERY SHOWS A FEW
BREAKS IN CLOUD COVER OVER EASTERN SOUTH DAKOTA SUGGESTING LOCAL AREAS OF
ENHANCED HEATING/DESTABILIZATION WILL OCCUR. STORMS WILL ENCOUNTER
INCREASINGLY UNSTABLE AIR MASS AS THEY SPREAD ACROSS EASTERN SOUTH DAKOTA...WITH
POTENTIAL FOR SEVERE THUNDERSTORMS AND ISOLATED TORNADOES BECOMING MORE
FAVORABLE BY MID AFTERNOON.

AVIATION...TORNADOES AND A FEW SEVERE THUNDERSTORMS WITH HAIL
SURFACE AND ALOFT TO 2 INCHES. EXTREME TURBULENCE AND SURFACE WIND GUSTS TO 65
KNOTS. A FEW CUMULONIMBI WITH MAXIMUM TOPS TO 500. MEAN STORM MOTION VECTOR
23030.

;455,0963 433,0960 433,0990 455,0993;

\$\$

9. Aviation Watch Notification Message.

WWUS30 KWNS 041913

SAW3

SPC AWW 041913

WW 689 SEVERE TSTM NY LO 042000Z - 050200Z

AXIS..90 STATUTE MILES EITHER SIDE OF LINE..

40ESE BGM/BINGHAMTON NY/ - 15WNW MSS/MASSENA NY/

..AVIATION COORDS.. 80NM EITHER SIDE /38NE AVP - 55NW SLK/

HAIL SURFACE AND ALOFT..2 1/2 INCHES. WIND GUSTS..70 KNOTS.

MAX TOPS TO 450. MEAN STORM MOTION VECTOR 270/30.

10. Watch Status Message.

WOUS20 KWNS 270000

WWASPC

SPC WWA 270000

TXZ000-ARZ000-LAZ000-270100

STATUS REPORT ON WS 1002

SEVERE WEATHER THREAT CONTINUES TO THE RIGHT OF A LINE FROM 25 WSW
TXK...30 ENE TXK...10 WNW HOT. THIS AREA IS UNCHANGED FROM THE
PREVIOUS STATUS MESSAGE.

\$\$

...IMY..9/25/99